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RESEARCH ARTICLE

PELLAGRA: A RARE COMPLICATION OF ANOREXIANERVOSA

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Abstract

Althoughpellagraappears to be a rare entitynow, itcanstilldevelop. It is important to recognize how the diseasemanifests to ensureproper and prompt treatment. We present a case of pellagrase condary to anorexian ervosa in a 25-year-old woman.

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Introduction:-

Pellagrais a rare systemic disease, with a clinical triad of skin, digestive and sometimes neurological symptoms, which can be seen at anyage and is more frequent in developing countries. It is secondary to a deficiency of niacin (vitamin PP or B3). In case of delay in diagnosis and treatment, pellagrais fatal(1)

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We report the observation of pellagrasecondary to anorexianervosa in a young 25 yearoldfemale patient.

Observation:-

The patient was 25 yearsold and had a history of acromegalysecondary to an operatedpituitaryadenoma, complicated by adrenal and thyroidinsufficiency.

Hospitalized for alteration of the general state, withasthenia and a weightloss of 15kg, evolving for three months.

The interrogation revealedeating disorders such as restrictive anorexian ervosa.

The clinicalexaminationfound a hypotensive patient (BP 90/52 mmHg), bradycardic (FC:56bpm)the dermatologicalexaminationhighlighted a skin rash made of hyperpigmented patches withsharp contours coveredwithichthyosiformscales (fig1, 2). Theselesionswerelocatedbilaterally and symmetrically on the backs of the hands and feet, and wereassociatedwithfissured dry cheilitis and depapillatedglossitis.

The neurological examination revealed a neurological disorder such as bradypsychia and memory impairment.

Moreover, the patient did not report any digestive disorders.

Dermoscopyshowed (fig3) white scales on a pigmented background.

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The skin biopsyshowed the presence of aparakeratotichyperkeratosis associated with a focal pigmentary incontinence.

Biologicalworkuprevealed a malabsorption syndrome (Hypoalbuminemia, microcyticanemia, lowferritinemia).

Fibrocoloscopy and thoracic-abdominal-pelvic CT scan were normal; vitamin B1, B6, B12 and zinc levelswere not available.

The diagnosis of pellagrawas retained. A high-calorie; high-proteindiet and oral niacinsupplementationwere prescribed. The skin lesions improved significantly but did not completely disappear. The patient was referred to a psychiatric consultation for treatment.

Discussion:-

Pellagraiscaused by a cellular deficiency of niacin or itsprecursoraminoacid; tryptophan.

Primarypellagraoccurswhenthereis a dietarydeficiency of tryptophan or niacin. Secondarypellagraiscaused by conditions characterized by interferencewith the absorption or metabolism of tryptophan and niacin, such as anorexianervosa, chronicalcoholism, prolongeddiarrhea, ileitis, colitis, cirrhosis, carcinoid syndrome, Hartnup'sdisease and HIV.(2)

Neurologicsymptoms are usually subtle and nonspecific, but if leftuntreated, mayprogress to death from multiorgan failure. (3) Therefore, mucocutaneous signs provide important diagnostic clues. The diagnosis of pellagrais clinical; It presents as an acute, symmetrical, erythematous rash, well demarcated in the photo-exposed areas; and is confirmed by a rapid response to oral nicotina mide when up to 500 mg per day in divided doses is administered (4)

Histologyis non-specific(5)vitaminassaysshould not delaytreatment. Substitutive treatment leads to a rapide rgression of cutaneous, neurological and digestive signs. Polyvitamin complexes are oftennecessarybecause of multiple vitamindeficiencies. Etiologicaltreatmentis essential.

In patients withanorexianervosa, the signs of pellagramaybeatypical and overlap withother nutritional deficiencies (6, 7)

Our patient did not initially present with obvious signs of an orexian ervosa or body image problems. The diagnosis was made only after clinical suspicion led to a careful examination of the dietary history.

Conclusion:-

Although rare, pellagrais a diseasethatisstill prevalent and deserves to be known because of its potentially fatal course.

Figures:



Fig1, 2:-Bilateral, symmetrical, and scalydermatitis with hyperkeratosis in photoexposed areas of both hands and feet.



Fig3:- White scales on a pigmented background.

Conflict of interest:

There is no conflict of interest of any of the authors.

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